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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,664	11/25/2003	Joseph Patrick Burke	040053/QUALP837US	8086

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EXAMINER	
CHAN, RICHARD	

ART UNIT	PAPER NUMBER
2618	

NOTIFICATION DATE	DELIVERY MODE
01/31/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No.	Applicant(s)	
	10/723,664	BURKE ET AL.	
	Examiner	Art Unit	
	Richard Chan	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on 11/15/07

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) 1,2,4-14,16,20-25,27 and 28 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) 1, 2, 4-14, 16, 20-25, 27, and 28 is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/16/07 has been entered.

Response to Arguments

2. Applicant's arguments, see page 10, filed 10/31/07, with respect to the rejection(s) of claim(s) 1 under 35 U.S.C 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Ito(EP 1 089 578 A2).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 2, 4-14, 16, 20-25, 27, and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Ito(EP 1 089 578 A2).

Regarding claim 1, Ito teaches a method for synchronizing a wakeup schedule Fig.10 (module 11) for a first communications module (WCDMA module 21) and a wakeup schedule (module 11) for a second communications module (Blue Tooth system) in a wireless mobile unit, said method comprising: determining a next first communications wakeup time("wait period setting control means 111 terminates the wait operation period according to the BT system in synchronization with the trailing edge of the W-CDMA wait operation period.); and synchronizing a new second wakeup time to said next first communications wakeup time when said next first communications wakeup time is earlier than a next second wakeup time (¶ 0049-0051).

Regarding claim 2, Ito teaches a method for synchronizing a wakeup schedule for a UWB module (WCDMA module 21) and a wakeup schedule for a communications module in a wireless mobile unit said method comprising: determining a next communications wakeup time; and establishing a next UWB wakeup time; and synchronizing a new UWB wakeup time to said next communications wakeup time when said next communications wakeup time is earlier than the next UWB wakeup time (¶ 0049-0051).

Regarding claim 4, Ito teaches determining a current communications time (Fig,10 CPU operation); and determining a current UWB time W_CDMA wait operation (¶0049-0051).

Regarding claim 5, Ito teaches determining a communications interval, said communications interval (BT wait operation) equaling said next communications wakeup time less said current communications time (¶0049-0051).

Regarding claim 6, Ito teaches a step of synchronizing said new UWB wakeup time to said next communications wakeup time when said current UWB time plus said communications interval is less than said next UWB time (¶0049-0051).

Regarding claim 7, Ito teaches a step of performing a UWB wakeup process and a communications wakeup process substantially at said new UWB wakeup time (¶0049-0051).

Regarding claims 8 and 12, Ito teaches said performing step comprises a step of powering on said UWB module and said communications module substantially simultaneously so as to reduce said wireless mobile unit's power consumption (¶ 0053).

Regarding claim 9, Ito Fig.8 teaches a method for synchronizing a wakeup schedule for a UWB module and a wakeup schedule (Fig.10) for a communications module in a wireless mobile unit, said method comprising: determining a current communications time from a received pilot signal transmitted from a base station (BS) (0052); and determining a current UWB time from an internal clock in the UWB module

21; calculating a communications interval (Gap between W-CDMA and BT wait operation), said communications interval equaling a next communications wakeup time less said current communications time; and synchronizing a new UWB wakeup time to said next communications wakeup time when said current UWB time plus said communications interval is less than a next UWB time (¶0049-0052).

Regarding claim 10, Ito teaches establishing said next communications wakeup time prior to said step of calculating said communications time interval; and establishing said next UWB wakeup time prior to said step of synchronizing said new UWB time (¶0049-0052).

Regarding claim 11, Ito teaches a step of performing a UWB wakeup process and a communications wakeup process substantially at said new UWB wakeup time (¶0049-0052).

Regarding claims 13 and 24, Ito teaches said wireless mobile unit comprises a UWB-enabled communications mobile phone (figures 8).

Regarding claim 14, Ito teaches a wireless mobile unit Fig.8 comprising: a communications module 2 configured to perform a communications wakeup process Fig.9 at a next communications wakeup time, wherein the communications module includes a communications transmitter/receiver 2 and a communications antenna 23

configured to receive a pilot signal from a base station BS so as to synchronize the communications antenna configured to receive a pilot signal from a base station so as to synchronize the communications module with said base station and derive a current communications time from said pilot signal;

a UWB module 2 configured to perform a UWB wakeup process 111, wherein the UWB module comprises a clock, said clock being configured to track a current UWB time; and a processor configured to synchronize a new UWB wakeup time to said next communications wakeup time when said next communications wakeup time is earlier than a next UWB wakeup time (¶0049-0052).

Regarding claim 16, Ito teaches said UWB module is configured to perform said UWB wakeup process at said new UWB wakeup time when said next communications wakeup time is earlier than said next UWB wakeup time (¶0049-0052).

Regarding claim 20, Ito teaches said processor is further configured to calculate a communications interval, said communications interval equaling said next communications wakeup time less said current communications time (¶0049-0052).

Regarding claim 21, Ito teaches said processor is further configured to synchronize said new UWB wakeup time to said next communications wakeup time when said current UWB time plus said communications interval is less than said next UWB time (¶0049-0052).

Regarding claim 22, Ito teaches said communications module performs said communications wakeup process and said UWB module performs said UWB wakeup process substantially at said new UWB wakeup time (¶0049-0052).

Regarding claim 23, Ito teaches said communications module and said UWB module are configured to power on substantially simultaneously so as to reduce said wireless mobile unit's power consumption (¶0049-0052).

Regarding claim 25, Ito teaches a wireless unit comprising: a memory means(12); a means for performing a communications wakeup process at a next communications wakeup time; and a means for synchronizing a new UWB wakeup time to said next communications wakeup time when said next communications wakeup time is earlier than a next UWB wakeup time (¶0049-0052).

Regarding claim 27, Ito teaches a digital signals processing apparatus comprising: a memory means 12 for storing digital data; and a digital signal processing means 11 for interpreting digital signals to synchronize a wakeup schedule for a UWB module 2 and a wakeup schedule (Fig.10) for a communications module in a wireless mobile unit Fig.8 by: determining a next communications wakeup time; and synchronizing a new UWB wakeup time to said next communications wakeup time

when said next communications wakeup time is earlier than a next UWB wakeup time (¶0049-0052).

Regarding claims 28, Ito teaches said digital signal processing means further interpreting digital signals to establish said next UWB wakeup time after said determining a next communications wakeup time and before said synchronizing a new UWB wakeup time (¶0049-0052).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chan whose telephone number is (571) 272-0570. The examiner can normally be reached on Mon - Fri (9AM - 5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571)272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Richard Chan
Art Division 2618
1/15/08

NAY MAUNG
SUPERVISORY PATENT EXAMINER